

ABSTRACT OF THE DISCLOSURE

In an OFDM transmission scheme, in order to compensate any frequency response variation in time wise resulted from any distortion in a transmission path, out-of-synchronization with passage of time, frequency drift, and phase shift, and to improve a demodulation characteristic, a PS detector 261 in a receiver receiving an OFDM signal detects a pilot symbol. A PS1 TPFR calculator 62 calculates a frequency response of the transmission path for a first pilot symbol, while a PS2 TPFR calculator 63 calculates that for a second pilot symbol. Thereafter, a compensation vector calculator 64 calculates compensation vectors from the frequency responses of the transmission path for both of the first and second pilot symbols by linear approximation. A frequency response compensator 65 compensates the frequency response variation of subcarriers in a data symbol based on the calculated compensation vectors.